

Dynamics Of Water Waves Selected Papers Of Michael Longuet Higgins Volumes 1 3 Advanced Series On Ocean Engineering

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this handbook is the definitive reference for the interdisciplinary field that is ocean engineering it integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean

vehicles and automation it aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture the springer handbook of ocean engineering is organized in five parts part a fundamentals part b autonomous ocean vehicles subsystems and control part c coastal design part d offshore technologies part e energy conversion

ocean engineering is generally considered to be concerned with studies on the effects of the ocean on the land and with the design construction and operation of vehicles structures and systems for use in the ocean or marine environment the practice of engineering differs from that of science in both motivations and objectives science seeks understanding of the principles of nature in terms of generalizations expressed as laws and classifications engineering seeks the application of knowledge of the physical and natural world to produce a benefit expressed as a device system material and or process from the standpoint of the financial sponsors of an engineering project the ideal approach is one of minimal risk in which only proven knowledge materials and procedures are employed there is frequent departure from this ideal in anticipation of the increased benefit expected from a large increase in performance of a structure or device the process of acquiring this new capability is engineering research historically ocean engineering developed with the application of engineering principles and processes to the design of ships and later to the machinery that propels them in most societies naval architecture and marine engineering are recognised as the origin of ocean engineering in fact the design of a ship constitutes the original systems engineering programme involving hydrodynamics fluid flow structural design machinery design electrical engineering and so on as well as requiring knowledge of the ocean environment waves corrosion etc

this encyclopedia adopts a wider definition for the concept of ocean engineering specifically it includes 1 offshore engineering fixed and floating offshore oil and gas platforms pipelines and risers cables and moorings buoy technology foundation engineering ocean mining marine and offshore renewable energy aquaculture engineering and subsea engineering 2 naval architecture ship and special marine vehicle design intact and damaged stability technology for energy efficiency and green shipping ship production technology decommissioning and recycling 3 polar and arctic engineering ice mechanics ice structure interaction polar operations polar design environmental protection 4 underwater technologies auv rov design auv rov hydrodynamics maneuvering and control and underwater specific communicating and sensing systems for auv rovs it summarizes the a z of the background and application knowledge of ocean engineering for use by ocean scientists and ocean engineers as well as nonspecialists such as engineers and scientists from all disciplines economists students and politicians ocean engineering theories ocean devices and equipment ocean design and operation technologies are described by international experts many from industry and each entry offers an introduction and references for further study making current technology and operating practices available for future generations to learn from the book also furthers our understanding of the current state of the art leading to new and more efficient technologies with breakthroughs from new theory and materials as the land resources approach the exploitation limit ocean resources are becoming the next choice for the sustainable development as such ocean

engineering is vital in the 21st century

this text is intended for use in a first course for ocean engineering students as an overview of the ocean engineering field its applications ocean engineering is a field that addresses man s use of the ocean frontier ocean engineers are involved in developing this vast harsh frontier while at the same time striving to protect the ocean environment 65 00 members 50 00 the society of naval architects marine engineers 601 pavonia ave jersey city nj 07306 phone 201 798 4800 fax 201 798 4975 website sname org

compiled by an internationally acclaimed panel of experts this is the most complete reference of its kind it provides comprehensive coverage of important areas of the theory and practice of oceanic coastal engineering and technology the well organized text includes five major sections marine hydrodynamics and vehicles control modeling considerations position control systems for offshore vessels applications of computational intelligence in the ocean s environment and fiber optics in oceanographic applications designed as a traditional handbook it offers a detailed look ocean engineering including thorough coverage of position control theory and implementation

1 impact of the delta works on the recent developments in coastal engineering krystian w pilarczyk 2 coastal structures in international perspective krystian w pilarczyk 3 coastal structures action from waves and ice alf torum 4 kaumalapa u harbor design and construction challenges of an exposed deepwater breakwater scott p sullivan 5 waterfront developments in harmony with nature karsten mangor und weitere 6 risk based channel depth design using cadet michael j briggs andrew l silver and paul j kopp

this volume provides a theoretical and practical introduction on the prediction of waves wave forces and the reliability of marine structures chapter 1 contains a description of contents and methods together with 24 case studies presented as problems with solutions the solutions are given as brief reports with reference to the theories and equations applied the three remaining chapters contain 24 theoretical articles the volume offers an indispensable reference source for all those interested in the practical and theoretical aspects of topics relevant to the marine industry the practical part provides the background needed for consultant services while the theoretical part gives the combination of hydrodynamics and statistics required in structural reliability methods

intended for undergraduate students also suitable for an introductory level course in a graduate program

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